Mikhail Temkine

Email: miktemk@gmail.com
Websites: myselfasiam.com | imageanimator.github.io | bierium.com (wip)
  GitHub/miktemk
Objective:
- Senior software developer position in a modern and creative team.
- Angular, React, AI/Machine learning, JAMstack, Blockchain, Android, Multimedia, Entertainment industry

Executive summary: Experience in frontend and backend development and integration in large scale multimedia-rich web, desktop and mobile projects, as well as big-data processing, analysis and visualization.

Skills and technologies

<u>Great</u>: C, C#, .NET Core, EF Core, ASP, WPF, SQL, Angular, React, Node.js, Typescript, JS, Python, Java, Android SDK, CSS3
<u>Good</u>: C++, Azure, Docker, PHP, WordPress, WCF, Blockchain, Machine Learning
<u>Familiar</u>: AWS, Objective C, Boost, STL, Dart, LISP, Unix/Linux, Shell scripting
Azure Administrator: AZ-900, AZ-104

Professional Experience

<u>BlueDot</u> (January 2020-April 2022)
Position: Senior Software Developer
Summary: Software and APIs for visualization of epidemiological data.
Projects:
- Client-facing React application for visualization of epidemiological data and its various cross-references with geospatial and temporal queries.
- Upgrading React application from JS to Typescript, then enhancement via Redux.
- Data visualizations using d3 library.
- ArcGIS/Esri (version 3) mapping libraries to provide geofence overlays. Handling and optimization of large quantities of geo shapes via polygon merging and network throttling.
- Optimization of SQL queries with lookup dictionaries and matrix manipulations.
- Setting up infrastructure for Automated deployments of Python code to Azure ML.
- Big data manipulation in Python using Pandas and numpy.
- PowerBi template apps, pulling data from API and SQL, Import vs DirectQuery.

Tools/Languages: React, Redux, .NET Core, d3, ArcGIS/Esri, Python ML, Azure devops, ADF, PowerBi.

<u>HelloGbye</u> (December 2016-December 2019)
Position: Lead Software Developer
Summary: Automation of travel request processing.
Projects:
- Convert web application from AngularJS --> Angular4-7 and mobile application from native to hybrid (Ionic) so that they share the same core code.
- Automated Typescript code generation for calling APIs from the front-ends.
- WPF application suite for development of grammar for Natural Language Parsing (NLP), analysis and machine learning. Custom script syntax.

- Support of legacy NLP system and its test suite to avoid regression during enhancements.
- Creation and maintenance of Nuget and Node packages. Automation.
- Node.js server for collecting logs and production monitoring, storing data in MongoDB.

Tools/Languages: Angular 4-7, Ionic, Node.js, Typescript, C#, WPF (MVVMLight), Prolog, Python.

Zomp Inc (June 2016-December 2016)
Position: Software Developer
Summary: WPF application for visualizing oil and gas pipelines.
Tools/Languages: C#, WPF (MVVMLight), EF6, LocalDB, OWIN, Katana, WIX installer

Computer Talk Technology (Aug 2013 - Aug 2014, Jan 2015, June 2015-Aug 2015)
Position: Software Developer
Summary: Call center development and hosting. Research and development team.
Projects:
- Intranet : responsive web client for administration, data visualization, evaluation, server notifications, back-end settings, permissions. (AngularJS, SignalR, WCF, Entity Framework 6, LESS/CSS)
- IMR Service : WCF service providing communication among web clients, databases and COM components.

Tools/Languages: C#, WCF, EF6, Javascript, KnockoutJS, AngularJS, SignalR, jQuery, LESS/CSS

TFO (Télévision Français d'Ontario) (August 2010 - July 2013)
Position: Web and database developer
Summary: Web applications for TV broadcasting and live webcasts. Large scale database synchronization and migration.
Projects:
- relief.tv : web application for a live TV show. Live webcasting. Data synchronization of broadcast episodes and subsequent edits.
- tfo.org : responsive web application for Louise broadcast management system.
- m.tfo.org : mobile version of tfo.org. Kaltura and Limelight transcoding and synchronization.
- tfo.org/mini : website displaying latest videos, showtimes and games.

Tools/Languages: C#, .NET, ASP, MVC 2/3, Entity Framework, T-SQL, Javascript, KnockoutJS, AngularJS, jQuery, CSS, XML, XSLT, Ajax, Proconsultant Mogador Tooklit

Affinity Solutions Inc (May 2009 - July 2010)
Position: Web and database developer
Summary: Large scale human solution projects. Frontend and backend.
Projects:
- ASP web application for content management
- Internal messaging system
- SQL data migrations
- IVR (interactive voice-response) system
- Google map controls
- Generation of Word documents

Tools/Languages: C#, T-SQL, Javascript, jQuery, CSS, XML | .NET, Classic ASP, ADO

EPSON Canada Limited (16 months coop: May 2007 - August 2008)
Position: Software developer

Summary: Participated in research and development projects for massive multimedia data collection and analysis.
Projects:
- Various GUI in .NET (C#): running unmanaged DLLs, data charts, Printer simulation tool for testing defect detection algorithms, data collecting tools with video.
- Optical character recognition (OCR) engine. Adaptive algorithm based on the k-nearest neighbor (KNN) feature space. Collected samples and trained the KNN feature space
- Security camera face recognition and greeting system
- 3D volumetric human face scanner. 39 cameras mounted onto a cylindrical frame and connected to two machines synchronized via LAN ports.

Tools/Languages: C/C++, C#, .NET, ADO, MFC, WIN32 API, TCP-IP, WIA, DirectShow, Microsoft Speech API, IC Imaging Control SDK, Python, XML

Personal Projects
- IMGANI - Image Animator. Convert pen+paper hand drawings to digital images with an intelligent green screen removal algorithm. Combine harvested images into scenes for real time recording of keyframes. (imageanimator.github.io)
- Vidka video editor: a lightweight non-linear video editor. C# desktop application that leverages ffmpeg and AviSynth. Features: clip trimming, reordering, clip overlays (1 layer), audio clip overlays, still images, clips with text. (myselfasiam.com/#/vidka)
- Entropy: a POC JAMstack application for time/task management and scheduling. Node.js, Typescript, Angular, Ionic, MongoDB, JWT authentication and session management.
- Android apps (acouster.org, github.com/miktemk/AcousterCommons)
- Software for recording bilingual audiobooks. Discards messy segments, MP3 split and concatenation. (Code: GitHub/AudioBooker)
- ChefMadeEasy.com: Recipe database and culinary tips (WordPress)
- 2005: Java3D: game engine with collision detection and gravity
- 2003: MIDI Score Creator: MIDI composition desktop application with visual interface representing notes on staff paper, playback and plugin features. (Java)
- 2002-2004: High school projects: 3D first person shooter, other games. (Pascal)
- Conversion of scanned drawing to vector graphics via Gaussian color matches, clustering, edge-detection

Education and Awards
University of Toronto, Bachelor degree in Computer Science, Software Engineering program (Graduated: May 2009, GPA: 3.45/4.0)
Dean's list scholar award in 2005

Apicius culinary institute, Florence University of the Arts, 2 year program in Culinary Arts with experiential learning.
(Graduated: April 2016)

Culinary Experience
Ganzo School Restaurant (6 months: Fall 2015, Spring 2016)
Position: chef
Summary: Management of preparations for food service during lunch, small bites and dinner. Management of both à la carte and table d'hôte menus within the same week. Collaborations with chefs as well as chefs from other teams and guest chefs. HACCP compliance.

<u>Ganzo School Restaurant</u> (6 months: Fall 2014, Spring 2015)
Position: waiter

Other Skills and Interests
- Languages (English, Russian, French, Italian, Spanish)
- Drawing/painting/GIMP
- Music, jazz theory
- Karate, martial arts, gymnastics